

6713-Sequence Listing.txt
 SEQUENCE LISTING

<110> Knackmuss, Stefan
 Rey, Clemence
 Buttner, Claudia
 Rottgen, Peter
 Reusch, Uwe

<120> Single-Chain Antibody Acting Against The 37 kDa/67 kDa Laminin
 Receptor As Tools For The Diagnosis And Therapy Of Prion
 Diseases And Cancer, Production And Use Thereof

<130> 6713

<140>

<141> April 7, 2006

<150> German Application No. 103 46 627.4

<151> 2003-10-08

<160> 4

<170> WordPerfect 11

<210> 1
 <211> 816
 <212> DNA
 <213> artificial sequence

<220>
 <223> DNA codes for single-chain antibody scFv S18. It is contained
 in the plasmid pEX/HAM/LRP-S18. This plasmid was deposited in
 the DSMZ, Mascheroder Weg 1b, D-38124 under the accession
 number xxxx. After transformation of the plasmid in E.coli
 XL1-Blue, the production of the scFv antibody S18 is possible.

<400> SEQ ID NO. 1

caggtgcagc tgcaggagtc tgggggaggc ttgttacagc ctgggggggtc cctgagactc	60
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ccagggaagg ggccagagtg ggtctcaggt attagtggta gtggtggtag tacatactac	180
gcagactccg tgaagggccg gttcaccgtc tccagagaca attccaagaa cacgctgtat	240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gagacatccg	300
ggtttttggc attttgacta ctggggccag ggaactctgg tcaccgtctc ctgaggagat	360
gcatccgccc caaagcttga agaaggtgaa ttttcagaag cacgcgtatc tgaactgact	420
caggaccctg ctgtgtctgt ggccttggga cagacagtca ggatcacatg ccaaggagac	480
agcctcagaa acttttatgc aagctggtac cagcagaagc caggacaggc ccctactctt	540
gtcatctatg gtttaagtaa aaggccctca gggatcccag accgattctc tgcctccagc	600

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tcaggaaaca cagcttcctt gaccatcact ggggctcagg cggaagatga ggctgactat 660
tactgtaact cccgggacag aagtggtaat catgtaaatg tgctattcgg cggagggacc 720
aagctgaccg tcctacgtca gcccaaggct gccccctcgg tcactctgtt cccgccctct 780
tctgcggccg ctggatccca tcaccatcac catcac 816

<210> 2
<211> 272
<212> PRT
<213> artificial sequence

<220>
<223> This protein corresponds to the single-chain antibody S18. It can be synthesized in E.coli XL1-Blue after transformation of the plasmid pEX/HAM/LRP-S18.

<400> SEQ ID NO. 2

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Arg Tyr
20 25 30
Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val
35 40 45
Ser Gly Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg His Pro Gly Phe Trp His Phe Asp Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu Glu
115 120 125
Gly Glu Phe Ser Glu Ala Arg Val Ser Glu Leu Thr Gln Asp Pro Ala
130 135 140
Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp
145 150 155 160
Ser Leu Arg Asn Phe Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln
165 170 175
Ala Pro Thr Leu Val Ile Tyr Gly Leu Ser Lys Arg Pro Ser Gly Ile
180 185 190
Pro Asp Arg Phe Ser Ala Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr
195 200 205
Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser
210 215 220

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Arg Asp Arg Ser Gly Asn His Val Asn Val Leu Phe Gly Gly Gly Thr
 225 230 235 240
 Lys Leu Thr Val Leu Arg Gln Pro Lys Ala Ala Pro Ser Val Thr Leu
 245 250 255
 Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser His His His His His His
 260 265 270

<210> 3
 <211> 834
 <212> DNA
 <213> artificial sequence

<220>
 <223> DNA codes for single-chain antibody scFv N3. The DNA is contained in the plasmid pEX/HAM/LRP-N3. This plasmid was deposited in the DSMZ, Mascheroder Weg 1b, D-38124 under the accession number xxxx. After transformation of the plasmid in E.coli XL1-Blue, the production of the scFv antibody N3 is possible.

<400> SEQ ID NO. 3

gaagtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgagactc 60
 tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gactataccg 300
 cgctcgtctt tctactacgg tatggacgtc tggggccaag ggaccacggc caccgtctcc 360
 tcagggagtg catccgcccc aacccttaag cttgaagaag gtgaattttc agaagcacgc 420
 gtacagcctg tgctgactca gccaccctca gcgtctggga cccagggca gagggtcacc 480
 atctcttggt ctggaagcag atccaacatc ggaagtaata ctgtaaaactg gtaccagcag 540
 ctcccaggaa cggcccccaa actcctcatc tatggtaata atcagcggcc ctcaggggtc 600
 cctgagcgat tctctggctc caagtctggc acctcagcct ccctggccat cagtgggctc 660
 cagtcagagg atgaggctga ttattactgt gcagcgtggg atgacagcct gactggtgtg 720
 cttttcggcg gagggaccaa gctgaccgtc ctaggctcagc ccaaggctgc cccctcggtc 780
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<210> SEQ ID NO. 4
 <211> 278
 <212> PRT
 <213> artificial sequence

<220>

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<223> This protein corresponds to the single-chain antibody N3. It can be synthesized in E.coli XL1-Blue after transformation of the plasmid pEX/HAM/LRP-N3.

<400> SEQ ID NO. 4

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1          5          10          15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20          25          30
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35          40          45
Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85          90          95
Ala Thr Ile Pro Arg Ser Ser Phe Tyr Tyr Gly Met Asp Val Trp Gly
100          105          110
Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Thr
115          120          125
Leu Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val
130          135          140          150
Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr
145          150          155          160
Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn Thr Val Asn
165          170          175
Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly
180          185          190
Asn Asn Gln Arg Pro Ser Gly Val Pro Glu Arg Phe Ser Gly Ser Lys
195          200          205
Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp
210          215          220
Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Thr Gly Val
225          230          235          240
Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala
245          250          255
Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser
260          265          270
His His His His His His
275

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